Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		2		
LM End	0.00	Issue Type +	Ма	Location *				
Category	GPS Latitude/Longitude							
Calegory				Start		End		
Item		s & Maintena	nce		0		0	
пеш	Manuals				0		0	
DWR ID DWR_RD2091_01_s _ 2013_2								
		Comn	nent Cod	de				
		Inspecto	or Comm	nent				
The LMA h	nas copy o	f O & M manu	ıal on file	at district	office	е.		

No Photos

LM Start	0.00	Rating **	Α	Issue No.		4		
LM End	0.00	Issue Type +	Issue Type + Ma Location *					
Category	Earthen L	evee	GPS Latitude/Longitude					
Category				Start		End		
Item		cy Supplies &		0		٥		
item	Equipment						0	
DWR ID	DWR_RD2	091_01_s _ 201	3_4					
		Comn	nent Cod	de				
	Inspector Comment							
The LMA r	The LMA maintains adequate flood fight supplies and equipment.							

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.00	Rating **	Α	Issue No.		5	
LM End	0.00	Issue Type +	Ma	Location *		LS	
Catagory	Category Earthen Levee				atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &		٥		0	
пеш							0
DWR ID	DWR_RD2	091_01_s _ 201	13_5				
		Comn	nent Coc	de			
		Inspecto	or Comm	nent			
The LMA ractivities.	maintains a	a good workin	g knowle	edge of floo	d res	sponse	

No Photos

LM Start	0.23	Rating **	U	Issue No.		15	
LM End	0.23	Issue Type +	Ма	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Calegory		Start En		End			
Item	Erosion /	Bank Caving		37.5415	50°	37.541550 °	
пеш				-121.0967	42 °	-121.096742 °	
DWR ID	DWR_RD2	091_01_s _ 201	6_15				
	Comment Code						

E1: Note and monitor erosion site.

Inspector Comment

Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LM End	0.23	Issue Type +	Ma	Location *	LS

Photo 1 of 4: FA_2016_RD2091_318_15_20161007_00002.jpg



Looking west at dip on landward levee shoulder.

Photo 2 of 4: FA_2016_RD2091_318_15_20161007_00003.jpg



Looking southeast at depression along landward shoulder.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

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Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.23	Rating **	U	Issue No.		15 (cont)	
LM End	0.23	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Erosion /	Bank Caving		37.5415	50°	37.541550°	
пеш				-121.0967	42°	-121.096742°	
DWR ID	DWR_RD2	091_01_s _ 201	6_15				
		Comn	nent Cod	de			
E1: Note a	and monito	or erosion site					
	Inspector Comment						
Caving on landward shoulder possible collapsed pipe. Caving is 34 feet long over one inch depth.							

LM Start	0.23	Rating **	U	Issue No.	15 (cont)
LMEnd	0.22	Iceua Typa +	Ma	Location *	1.0



Looking south at depression along landward shoulder.

Photo 4 of 4: FA_2016_RD2091_318_15_20161007_00005.jpg



Looking northwest at depression along landward shoulder.

LM Start	0.25	Rating **	M	Issue No.		16
LM End	0.28	Issue Type +	Ма	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Erosion / I	Bank Caving		37.5414	92°	37.541408°
item				-121.0970)52°	-121.097453°
DWR ID DWR_RD2091_01_s _ 2016_16						
		Comn	nent Cod	de		
E1 : Note a	and monito	or erosion site	•			
		Inspecto	or Comm	nent		
Several fringer erosions and possible rodent holes along landward shoulder and slope.						



Looking east at fringer erosion on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.25	Rating **	M	Issue No.	16 (cont)			
LM End	0.28	Issue Type +	Ma	Location *	LS			
Category	Earthen Levee				GPS Latitude/Longitude			
Category	egory			Start		End		
Item	Erosion / Bank Caving			37.5414	92°	37.541408°		
пеш					52 °	-121.097453 °		
DWR ID	DWR_RD2	091_01_s _ 201	16_16					
Comment Code								
E1 : Note and monitor erosion site.								
Inspector Comment								

Several fringer erosions and possible rodent holes along landward shoulder and slope.

LM Start	0.25	Rating **	M Issue No.		16 (cont)	
LM End	0.28	Issue Type +	Ma	Location *	LS	



Looking east at fringer erosion and possible rodent hole on landward slope.

Photo 3 of 5: FA_2016_RD2091_318_16_20161007_00008.jpg



Looking east at fringer erosion on landward slope.

L	.M Start	0.25	25 Rating **		Issue No.	16 (cont)	
L	_M End	0.28	Issue Type +	Ma	Location *	LS	



Looking east at fringer erosion and possible rodent hole on landward slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.25	Rating **	М	Issue No.		16 (cont)	
LM End	0.28	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
Item	Erosion / Bank Caving			37.541492°		37.541408°	
item					52°	-121.097453°	
DWR ID DWR_RD2091_01_s _ 2016_16							
Comment Code							

E1: Note and monitor erosion site.

Inspector Comment

Several fringer erosions and possible rodent holes along landward shoulder and slope.



Looking east at erosion and possibe rodent hole on landward shoulder.

LM Start	4.85	Rating **	U	Issue No.		10	
LM End	4.85	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee			GPS Latitude/Longitude			
Calegory				Start		End	
Item	Animal Control			37.4941	15°	37.494115°	
item				-121.078100 °		-121.078100°	
DWR ID	DWR_RD2	091_01_f _ 201	6_10				

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several large rodent holes on landward slope.

LM Start	4.85	Rating **	U	Issue No.	10 (cont)
LM End	4.85	Issue Type +	Ma	Location *	LS

Photo 1 of 3: FA_2016_RD2091_318_10_20161027_00029.jpg



Looking south at several rodent holes on landward slope.

Photo 2 of 3: FA_2016_RD2091_318_10_20161027_00028.jpg



Looking south at close-up view of rodent holes on landward slope.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	4.85	Rating **	U	Issue No.		10 (cont)		
LM End	4.85	Issue Type +	Ma	Location * LS		LS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory				Start		End		
Item	Animal Control			37.4941	15°	37.494115°		
item				-121.0781	00°	-121.078100°		
DWR ID DWR_RD2091_01_f _ 2016_10								
	0 10 1							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Several large rodent holes on landward slope.



Looking west at close-up view of rodent holes on landward slope.

LM Start	5.20	Rating **	М	Issue No.		13
LM End	5.20	Issue Type +	Ma Location *			LS
Category	Earthen Levee			GPS Latitude/Longitude		
Calegory						End
Item	Slope Stability			37.4907	56°	37.490756°
пеш				-121.0734	10°	-121.073410°
DWR ID	DWR_RD2	091_01_f _ 201	6_13			

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

Vehicle traffic damaging slope on waterward and landward slope.

LM Start	5.20	Rating **	М	Issue No.	13 (cont)
LM End	5.20	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2016_RD2091_318_13_20161027_00030.jpg



Looking at damage on waterward slope.

Photo 2 of 2: FA_2016_RD2091_318_13_20161027_00031.jpg



A/W : Acceptable but Monitor & Maintain

U : Unacceptable

En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.46	10/26/2016 10/26/2016	Richard Willoughby

LM Start	5.66 Rating ** C		Issue No.		11			
LM End	5.68	Issue Type +	Ma	Location *	LS			
Catagory Earthen Levee			GPS Latitude/Longitude					
Category				Start		End		
Itom	Animal Control			37.48609	90°	37.485839°		
item	Item				12°	-121.067357°		
DWR ID DWR_RD2091_01_s _ 2015_11								
	Comment Code							

Comment Code

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

The LMA has implemented a rodent program. No visible rodents and rodent holes.

No Photos

LM Start	5.92	Rating **	М	Issue No.	12	
LM End	5.92	Issue Type +	Ма	Location *	LS	
Category Earthen Levee			GPS Latitude/Longitude			
Category				Start		End
Itom	Item Trim / Thin Trees			37.4859	98°	37.485998°
item				-121.0633	23 °	-121.063323°
DWR ID DWR_RD2091_01_f _ 2015_12						
		Comp	ant Coo	10		

Comment Code

T1: Trim trees to at least five feet above ground level.

Inspector Comment

LM Start	5.92	Rating **	М	Issue No.	12 (cont)
LM End	5.92	Issue Type +	Ma	Location *	LS

Photo 1 of 2: FA_2016_RD2091_318_12_20161027_00033.jpg



Looking north at untrimmed tree at landward toe.

Photo 2 of 2: FA_2016_RD2091_318_12_20161027_00032.jpg



Look southeast at untrimmed tree at landward toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.03	Rating **	С	Issue No.		1			
LM End	0.03	Issue Type +	Ma	Location *	WS				
Category	Earthen Levee			GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Trim / Thi	n Trees		37.4825	23°	37.482523°			
пеш				-121.051103°		-121.051103°			
DWR ID DWR_RD2091_02_s _ 2012_1									
	Comment Code								
T2 : Thin to	rees to allo	w visibility of	the grou	nd and roo	m to	flood fight.			
		Inspecto	or Comm	nent					

No Photos

LM Start	0.05	Rating **	С	Issue No.	2	
LM End	0.05	Issue Type +	Ma	Location *	WS	
Category Earthen Levee			GPS Latitude/Longitude			
Calegory		Start		End		
Item	Vegetatio	n		37.4828	15°	37.482815°
item				-121.0508	49°	-121.050849°
DWR ID DWR_RD2091_02_f _ 2012_2						
Comment Code						

V2: Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

No Photos

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.05	10/26/2016 10/26/2016	Richard Willoughby

LM Start	0.30	Rating **	М	Issue No.		4
LM End	0.30	Issue Type +	Ma	Location *		LS
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.541327°		37.541327°
				-121.097895 °		-121.097895 °
DWR ID	DWR_RD2091_02_f _ 2016_4					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						



Looking south at untrimmed tree at landward slope.